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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/049,750	12/09/2002	Wilhelm Tischer	HURR-1205	6008	
24972 7590 12/19/2006 FULBRIGHT & JAWORSKI, LLP			EXAMINER		
666 FIFTH AV	'E	·	RAMIREZ,	RAMIREZ, DELIA M	
NEW YORK, NY 10103-3198		• •	ART UNIT	PAPER NUMBER	
			1652		
			MAIL DATE	DELIVERY MODE	
			12/19/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/049,750	TISCHER ET AL.		
Examiner	Art Unit		
Delia M. Ramirez	1652		

	Delia M. Ramirez	1652					
The MAILING DATE of this communication appear	ars on the cover sheet with the c	correspondence add	ress				
THE REPLY FILED 14 November 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.							
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a Not a Request for Continued Examination (RCE) in compliance time periods:	the same day as filing a Notice of ving replies: (1) an amendment, aff tice of Appeal (with appeal fee) in o	Appeal. To avoid aba fidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)				
a) The period for reply expires <u>3</u> months from the mailing date	of the final rejection.	•					
b) The period for reply expires on: (1) the mailing date of this An no event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (I TWO MONTHS OF THE FINAL REJECTION. See MPEP 70	iter than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE 16.07(f).	g date of the final rejecti E FIRST REPLY WAS F	on. ILED WITHIN				
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount hortened statutory period for reply origi than three months after the mailing da	of the fee. The appropri inally set in the final Offi	iate extension fee ce action; or (2) as				
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th					
3. X The proposed amendment(s) filed after a final rejection, b	out prior to the date of filing a brief,	will not be entered b	ecause				
 (a) ☐ They raise new issues that would require further cor (b) ☐ They raise the issue of new matter (see NOTE below (c) ☐ They are not deemed to place the application in better appeal; and/or 	nsideration and/or search (see NO w); ter form for appeal by materially re	TE below); ducing or simplifying					
(d) They present additional claims without canceling a c		ected claims.					
NOTE: <u>see attached</u> . (See 37 CFR 1.116 and 41.3	` ''		(DTO) 00 ()				
4. The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment	(PTOL-324).				
 Applicant's reply has overcome the following rejection(s): Newly proposed or amended claim(s) would be all non-allowable claim(s). 		timely filed amendme	nt canceling the				
7. For purposes of appeal, the proposed amendment(s): a) a how the new or amended claims would be rejected is proved the status of the claim(s) is (or will be) as follows: Claim(s) allowed:	☑ will not be entered, or b) ☐ wil ided below or appended.	ll be entered and an e	explanation of				
Claim(s) objected to: Claim(s) rejected: <u>95-124</u> .		,					
Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE 3. ☐ The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).	sufficient reasons why the affidav	it or other evidence is	necessary and				
7. The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appear and was not earlier presented. Se	al and/or appellant fai ee 37 CFR 41.33(d)(1	ls to provide a).				
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	of the status of the claims after ei	ntry is below or attach	ied.				
 The request for reconsideration has been considered but see attached. 	does NOT place the application in	condition for allowar	nce because:				
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s)						
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ADVISORY ACTION

- 1. Claims 95-124 are pending.
- 2. Applicant's after final amendment filed on 11/9/2006 is acknowledged. Applicant's supplemental after final amendment filed on 11/14/2006 is acknowledged. The proposed amendments to the claims will not be entered. While amendments to the claims seem to overcome previous objections, 35 USC 112, second paragraph rejections, some of the grounds of rejections previously applied in regard to 35 USC 112, first paragraph, and the 35 USC 103 rejection over the teachings of Barbas in view of Baranov, the proposed amendments to the claims do not overcome all the grounds of rejections previously applied and raise new issues which would require further consideration as discussed below.
- 3. Proposed amended claim 123 would be rejected under 35 USC 112, second paragraph, due to the recitation of "the method of claim 122, wherein said starting material is fructose 1,6-diphosphate and said excess by-product is deoxyxylulose 1-phosphate (dX1P)" for the followings reasons. The method of claim 122 requires no starting materials or by-products prior to step (ii). Therefore, if no starting materials or by-products are present in the method of claim 122, it is unclear as to how limitations regarding the identity of the starting materials or by-products further limit the method of claim 123.
- 4. Proposed amended claims 121 and 123 would be objected to due to the recitation of "deoxyxyulose". The correct spelling of this word is "deoxyxylulose".
- 5. Previous claims 111-114 would remain rejected under 35 USC 112, first paragraph, written description for the reasons of record. Specifically, the claims require a step wherein the deoxyribonucleosides obtained from the reaction catalyzed by a purine nucleoside phosphorylase are further reacted in the presence of a different nucleobase to obtain a different deoxyribonucleoside (1) by any method, or (2) in the presence of any nucleoside 2-deoxyribonucleosyl transferase. However, the specification is silent with regard to (1) chemical catalysts and conditions which would allow the chemical synthesis of these deoxyribonucleosides, (2) the structures of other enzymes which would

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catalyze the required reaction in addition to the L. leichmannii enzyme encoded by the polynucleotide of SEO ID NO: 13, or (3) the structural elements within the L. leichmannii enzyme disclosed which are

Previous claims 111-114 would remain rejected under 35 USC 112, first paragraph, scope of enablement, for the reasons of record. Specifically, the claims require a step wherein the

deoxyribonucleosides obtained from the reaction catalyzed by a purine nucleoside phosphorylase are

further reacted in the presence of a different nucleobase to obtain a different deoxyribonucleoside (1) by

any method, or (2) in the presence of any nucleoside 2-deoxyribonucleosyl transferase. However, the

specification is silent with regard to (1) chemical catalysts and conditions which would allow the

chemical synthesis of these deoxyribonucleosides, (2) other enzymes which would catalyze the required

reaction in addition to the L. leichmannii enzyme encoded by the polynucleotide of SEQ ID NO: 13, or

(3) the structural elements within the L. leichmannii enzyme disclosed which are required in any enzyme

that catalyzes that reaction. Enabling the full scope of the claimed invention would require undue

experimentation. Thus, one cannot reasonably conclude that the teachings of the specification enable the

full scope of the claimed invention.

The rejections previously applied are, therefore, maintained for the reasons of record in view of 7.

the non-entry of the proposed amendments.

For purposes of Appeal, the status of the claims is as follows:

Claim(s) allowed: NONE

representative of any enzyme that catalyzes that reaction.

Claims(s) objected to: NONE

Claim(s) rejected: 95-124

Claim(s) withdrawn from consideration: NONE

9. Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PMR) system. Status information for published applications may be obtained from

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either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delia M. Ramirez whose telephone number is (571) 272-0938. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Ponnathapura Achutamurthy can be reached on (571) 272-0928. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Delia M. Ramirez, Ph.D.

Patent Examiner Art Unit 1652

DR

December 13, 2006